

SYSTEM AND METHOD EMPLOYING REFLECTIVE IMAGING DEVICES FOR A PROJECTION DISPLAY

Abstract of the Disclosure

Projection systems (10, 12, 14, 16) include light source apparatuses (20, 24, 26) for propagating narrow bands of unpolarized blue, green, and red light to associated reflective imaging devices that reflect selected patterns of the blue, green, and red light into a dichroic cross-combiner assembly (70, 72, 74), which recombines the light into a composite image and directs it into a projection lens (90). The reflective imaging devices are preferably micromirror displays (50, 51) having an array of pivotable micromirrors (52, 53) that direct on-state micromirror light to the projection lens and direct off-state micromirror light to a light absorbing surface (84).

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